

Application Number 10/731,868
Responsive to Office Action mailed February 20, 2007

AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): A method comprising:
making an incision in a scalp of a head of a patient to create a scalp flap;
separating the scalp flap from a skull of the patient, wherein the scalp flap is attached to the remainder of the scalp by a fold;
after separating the scalp flap from the skull, separating a portion of the remainder of the scalp adjacent to the fold from the skull to create a pocket adjacent to the fold and between the scalp and the skull; and
placing at least a substantial portion of a low-profile implantable medical device in the pocket adjacent to the fold and underneath the scalp.

Claim 2 (Original): The method of claim 1, wherein the low-profile implantable medical device comprises:
a first module that includes control electronics within a first housing;
a second module that includes a second housing; and
a flexible overmold that at least partially covers the first and second housings.

Claim 3 (Original): The method of claim 1, wherein the low-profile implantable medical device has a maximum thickness of between approximately 4 millimeters and approximately 8 millimeters.

Claim 4 (Original): The method of claim 1, wherein the low-profile implantable medical device has a maximum thickness of approximately 6 millimeters.

Application Number 10/731,868
Responsive to Office Action mailed February 20, 2007

Claim 5 (Original): The method of claim 1, wherein the low-profile implantable medical device has a periphery and wherein the angle between the periphery and the skull is greater than ninety degrees.

Claim 6 (Original): The method of claim 5, wherein the angle is approximately 135 degrees.

Claim 7 (Original): The method of claim 1, further comprising connecting a lead to the low-profile implantable medical device.

Claim 8 (Currently Amended): The method of claim 6 7, further comprising:
drilling a burr hole through the skull; and
inserting a portion of the lead through the burr hole.

Claim 9 (Original): The method of claim 1, further comprising anchoring the low-profile implantable medical device to the skull.

Claim 10 (Original): The method of claim 9, wherein anchoring the low-profile implantable medical device to the skull comprises anchoring the low-profile implantable medical device to the skull with a bone screw.

Claim 11 (Original): The method of claim 1, further comprising:
covering at least a portion of the low-profile implantable medical device with the scalp flap; and
suturing the scalp flap to close the incision.

Claim 12 (Currently Amended): The method of claim 1, further ~~comprising~~ comprising:
creating a recess in the skull; and
placing the low-profile implantable medical device in the recess.

Application Number 10/731,868
Responsive to Office Action mailed February 20, 2007

Claim 13 (Withdrawn): The method of claim 1, further comprising:
creating a second pocket between the scalp and the skull; and
placing at least a portion of a low-profile implantable medical device in the second pocket.

Claim 14 (Withdrawn): The method of claim 13, wherein the low-profile implantable medical device comprises:
a first module within a first housing;
a flexible overmold that at least partially covers the first housings;
a second module that includes a second housing; and
a flexible tether member that couples the second module to the first module,
wherein placing at least a portion of a low-profile implantable medical device in the second pocket comprises placing at least a portion of the second module in the second pocket.

Claim 15 (Original): The method of claim 1, wherein the low-profile implantable medical device is contoured in three dimensions to substantially conform to the shape of a skull.

Claim 16 (Original): The method of claim 1, further comprising adjusting the low-profile implantable medical device to cause a contour of the low-profile implantable medical device to more closely match a contour of the skull.

Claim 17 (Original): The method of claim 1, further comprising administering a local anesthetic to the patient prior to making the incision.

Application Number 10/731,868
Responsive to Office Action mailed February 20, 2007

Claims 18-23 (Canceled).

Claim 24 (New): The method of claim 1, wherein the incision is made in a top of the head of the patient.

Claim 25 (New): The method of claim 1, wherein placing the substantial portion of the low-profile implantable medical device in the pocket comprises placing all of the low-profile implantable medical device in the pocket.

Claim 26 (New): A method comprising:
making an incision in a scalp of a head of a patient to create a scalp flap;
separating the scalp flap from a skull of the patient, wherein the scalp flap is attached to the remainder of the scalp by a fold;
after separating the scalp flap from the skull, separating a portion of the remainder of the scalp adjacent to the fold from the skull to create a pocket adjacent to the fold and between the scalp and the skull; and
placing all of a low-profile implantable medical device in the pocket adjacent to the fold and underneath the scalp.

Claim 27 (New): The method of claim 26, further comprising:
creating a recess in the skull; and
placing the low-profile implantable medical device within the recess.

Application Number 10/731,868
Responsive to Office Action mailed February 20, 2007

Claim 28 (New): A method comprising:

making an incision in a scalp at a top of a head of a patient to create a scalp flap at the top of the head of the patient;

separating the scalp flap from a skull of the patient, wherein the scalp flap is attached to the remainder of the scalp by a fold;

after separating the scalp flap from the skull, separating a portion of the remainder of the scalp adjacent to the fold from the skull to create a pocket adjacent to the fold and between the scalp and the skull; and

placing at least a portion of a low-profile implantable medical device in the pocket adjacent to the fold and underneath the scalp.

Claim 29 (New): The method of claim 28, wherein placing the portion of the low-profile implantable medical device in the pocket adjacent to the fold and underneath the scalp comprises placing all of the low-profile implantable medical device in the pocket adjacent to the fold and underneath the scalp.